

The New Way of Business™

FLEXIBILITY

The VAIO® BX Series Notebook comes with a wide choice of mobility options. Integrated swappable Multi-Function Bay slot accommodates optional interchangeable devices that further customize your system to your unique needs, including the DVD+R Double Layer/DVD±RW⁴ Drive Bay Unit, the CD-RW/DVD-ROM Drive Bay Unit, the 80GB² HDD Bay Unit and the Hard Disk Drive Adapter Bay Unit. The VAIO® BX Series optional Docking Station offers an optional built-in Multi-Function Bay, an AC adapter that fits all models, and an extended battery charger.

MOBILITY

VAIO® BX Series Notebooks feature Intel® Centrino® Duo Mobile Technology with the Intel® Core™ 2 Duo processor, part of the next-generation, energy-efficient family of performance mobile processors. Integrated 802.11a/b/g wireless LAN³ and efficient power and application management for extended battery life⁷ on the go. A compact 14.1" display¹² makes the VAIO® BX Series Notebook as mobile as you want it to be.

SECURITY

Security is a top priority with the VAIO® BX Series Notebook. All VAIO® BX Series Notebooks feature an integrated Biometric Fingerprint Sensor, delivering personal security and the IT cost-savings and convenience of not having to remember your passwords. The Trusted Platform Module (TPM) TCG Ver.1.2 compliant chip enables companies to set the level of security on a specific client/user basis.

COMMUNICATION

VAIO® BX Notebook offers communication technology to keep you wirelessly connected, networked and conferenced in. With lightning-fast Gigabit Ethernet, integrated 802.11a/b/g wireless LAN³, and built-in camera for real-time video conferencing¹³ (microphone sold separately), you can communicate at whatever speed and in whatever style makes you the most productive.

Flexibility, mobility, security, superior communications functionality, and VAIO® Care full-service support - the VAIO® BX Notebook makes productivity truly scalable, enabling you to empower your business with Sony technology. With a 14.1" display¹² featuring XBRITE-ECO™ LCD Technology, swappable optional peripherals, leading-edge security components, and powerful communications options, the BX Notebook enables businesses to better manage resources, equip employees, and maximize value.



VGN-BX640B BTO Series

VAIO® BX Series Notebook PC

Specifications

General

Computer Type: Notebook
Type of Use: Portable
Action Buttons: S1, S2 (programmable), Mute, Wireless LAN/Bluetooth® On/Off and Camera Off (Available on select models)
Pointing Device: Electro-Static touch pad and Pointing Stick
Security: Trusted Platform Module (TPM), TCG Ver 1.2 compliant
Biometric Fingerprint Sensor

Hardware

Keyboard: QWERTY (85 keys with 2.5mm stroke and 19.05mm pitch)
Cisco™ V3 Compatibility: The Sony VAIO BX Series Notebook has been tested in accordance with test criteria set by Cisco and is compatible with Cisco's Aironet 1200AG Series Access Point platform and Cisco's Access Control Server v3.3¹¹
Camera: Optional Built-in Camera with 1/5" VGA CMOS Sensor

Processor

Type: Intel® Core™ 2 Duo Processor T7600 (Configuration 1),
Intel® Core™ 2 Duo Processor T7400 (Configuration 2),
Intel® Core™ 2 Duo Processor T7200 (Configuration 3),
Intel® Core™ 2 Duo Processor T5600 (Configuration 4) or
Intel® Core™ 2 Duo Processor T5500 (Configuration 5)
Speed: 2.33GHz² (Configuration 1),
2.16GHz² (Configuration 2),
2GHz² (Configuration 3),
1.83GHz² (Configuration 4) or
1.66GHz² (Configuration 5)
Front Side Bus Speed: 667MHz
L2 Cache: 4MB (Configurations 1-3) or
2MB (Configurations 4-5)
Technology: Intel® Centrino® Duo Mobile Technology

Memory

Type: DDR2
Installed: 2GB (1GBx2) PC2-4200, 1GB (1GBx1) PC2-4200,
1GB (512MBx2) PC2-4200 or 512MB (512MBx1) PC2-4200
Maximum: 2GB
Speed: 533MHz

Hard Drive

Capacity: 120GB², 100GB², 80GB², 60GB² or 40GB²
Speed: 5400rpm
Interface: Serial ATA

Optical Drive #1

DVD+R DL Write: 4x max. (DVD±R DL/DVD±RW only)
DVD+R Write: 8x max. (DVD±R DL/DVD±RW only)
DVD+RW Write: 8x max. (DVD±R DL/DVD±RW only)
DVD-R Write: 8x max. (DVD±R DL/DVD±RW only)
DVD-RW Write: 6x max. (DVD±R DL/DVD±RW only)
CD-R Write: 24x max. (DVD±R DL/DVD±RW)
24x max. (CD-RW/DVD-ROM)
CD-RW Write: 24x max. (DVD±R DL/DVD±RW)
24x max. (CD-RW/DVD-ROM)
DVD±RW: Yes⁴ (DVD±R DL/DVD±RW only)
CD Read: 24x max. (DVD±R DL/DVD±RW)
24x max. (CD-RW/DVD-ROM)
DVD Read: 8x max. (DVD±R DL/DVD±RW)
8x max. (CD-RW/DVD-ROM)
DVD-R DL Write: 4x max. (DVD±R DL/DVD±RW only)
DVD-RAM Read: 5x max. (DVD±R DL/DVD±RW)
5x max. (CD-RW/DVD-ROM)

Expansion Slots

Multimedia Card Reader: Supports optional Memory Stick®, Memory Stick Duo™ media⁷ and Secure Digital (SD) media
PCMCIA (Type II/Type I card slot with CardBus support)

Audio

Sound System: Windows® sound system compatible
Built-in stereo speakers
Interface: Monaural mini microphone jack
Headphone jack

Display

Screen or Display Technology: XGA LCD or SXGA+
(SXGA+ option only available with integrated camera)

Screen Size: 14.1"^{11,12}
Sony Electronics Inc. • 16530 Via Esprillo • San Diego, CA 92127 • 800-222-7669 • 619-590-1000
Resolution: 1024x768 (XGA), 1400x1050 (SXGA+)
XBRITE-ECO™ Technology: Yes

Graphics

Video RAM: 128MB (dedicated) (ATI graphics) or
128MB (dynamically allocated shared RAM/Video memory) (Intel® GMA graphics)

Chipset: Intel® 945PM (with external graphics) or
Intel® 945GM (with internal graphics)

Interface: VGA out w/ Smart Display Sensor

Inputs and Outputs

Ethernet Port: 1
Headphone Jack: 1
i.LINK® Interface: 1 (4-pin) interface⁶ IEEE 1394
Memory Stick® Media Slot: 1
Modem Jack: 2
Secure Digital Slot: 1
Microphone Input: 1
Port Replicator Connector(s): 1 (Bottom)
USB Port(s): 3 (2.0 compliant)
VGA Output(s): 1
DC-In: 1

Networking/Modem

Ethernet Protocol: Fast Gigabit Ethernet (RJ-45)
Ethernet Speed: 10Base-T/100Base-TX/1000Base-T
Modem Type: Integrated V.90/V.92 Modem (RJ-11)
Wireless LAN: Intel® PRO/Wireless 3945ABG Network Connection (802.11a/b/g)³
Bluetooth® Technology: Integrated Bluetooth® Technology⁵

Power

Battery Type: Standard Capacity Lithium-ion Battery (VGP-BPS4A) or Double Capacity Lithium-ion Battery (VGP-BPL4A)
Estimated Battery Life: 2.5-3.5 hours⁷ (Standard Battery)
5.5-6.5 hours⁷ (Large Capacity Battery)
Power Requirements: 105W+10%

Software

Operating System: Microsoft® Windows® XP Professional with Service Pack 2
Supplied Software: Microsoft® Works 8.5
60-Day Trial Version of Microsoft® Office 2003¹⁰
Security and Anti-Virus Software: Norton® Internet Security™ 60-Day Trial
TrendMicro™ Anti-Spyware 30-Day Trial

Service and Warranty Information

Telephone Support: 1 year (toll-free technical telephone assistance, available 24/7)⁹
Limited Warranty and Onsite Service: 1 Year Limited Warranty⁸ with Onsite Service
Online and Email Support: Support available from
<http://www.esupport.sony.com>

Dimensions

Weight: 5.7 lbs. with standard battery (weight is approximate and may vary)
Measurements: 12.48"(W) x 1.33"-1.38"(H) x 10.38"(D)
[Supplied Accessories](#)

Standard Capacity Lithium-ion battery (VGP-BPS4A) or
Double Capacity Lithium-ion battery (VGP-BPL4A)
AC adapter (VGP-AC19V10)
Power Cord

Optional Accessories

Multi-Function Docking Station with battery charger (VGP-PRBX1)
AC Adapter included (VGP-AC19V9)
Docking Station I/O:
Multi-Function Bay
Battery Charger
Serial Port
Hi Speed USB (USB 2.0) Ports x 4
Security Lock and Lock/Unlock Switch
Printer Port
Monitor (VGA) Port
Monitor (DVI-D) Port (DVI-D port not functional for Intel® Graphics Media Accelerator 950)
Fast Ethernet 10BASE-T/100BASE-TX/1000BASE-T
Additional Standard Capacity Battery (VGP-BPS4A)
Large Capacity Battery (VGP-BPL4A)
AC Adapter (VGP-AC19V10)
1GB Memory Expansion Module (VGP-MM1GA)
512MB Memory Expansion Module (VGP-MM512M)
Bluetooth® Headset (HBH-608)
Neoprene Notebook & AC Adapter (VGP-AMC5)
DVD R Double Layer/DVD±RW⁴ Multi-Bay unit (VGP-DRWBX1)
CD-RW/DVD-ROM Multi-Bay unit (VGP-CRWBX1)
HDD Adapter Multi-Bay unit (VGP-HDABX1)
Compatible with PATA 2.5" 9.5mm Height
80GB SATA 5400rpm 9.5mm High Multi-Bay unit (VGP-HDBX08)

Memory Card Adapter¹⁴ (VGP-MCA10)

Color: Silver Casing (Magnesium Casing)

1. GHz denotes microprocessor internal clock speed; other factors may affect application performance. CPU speed will be reduced under certain operating conditions.
2. GB means one billion bytes when referring to hard drive capacity. Accessible capacity may vary. A portion of hard disk space is reserved as a recovery partition.
3. Requires compatible wireless LAN access point, sold separately. Internet connection may require fees.
4. DVD Media/Formats are not universally compatible.
5. Interoperability among Bluetooth® devices varies.
6. i.LINK is a trademark of Sony used only to designate that a product contains an IEEE 1394 connector. All products with an i.LINK connector may not communicate with each other.
7. Actual battery life may vary based on product settings, usage patterns and environmental conditions.
8. When available, Sony will provide Onsite Service in fulfillment of its limited warranty obligations. Any such services are subject to the terms and conditions of the limited warranty. See actual Limited Warranty for details. Onsite Service will be provided via third-party technician to be dispatched as needed following phone-based troubleshooting. Some repairs may be accomplished with self repair kits. Onsite Service may not be available in all locations.
9. For certain third party software applications, Sony provides first level Phone Support. Additional telephone support may be available from the applicable 3rd party vendor. Availability and schedule for any such support is determined by the applicable software vendor.
10. The Microsoft Office 2003 60-Day Trial software is intended for evaluation purposes only. This trial software is installed on your system and you must activate the software before you can use it. Product activation procedures will be detailed during initial launch of the software; activation requires Internet access. This software has an expiration date of 60 days from date of first use, at which time the software will operate under reduced-functionality mode, limiting end-use options and operations.
11. Sony VAIO® Professional BX Series has tested compatible with the Cisco Aironet Access Point 1200 Series and the Cisco Access Control Server v3.3. Cisco Compatible signifies that Sony's product has undergone interoperability testing by Sony, together with Cisco and a third-party test house, based on testing criteria set by Cisco. Sony is solely responsible for the support and warranty of its product. Cisco makes no warranties, express or implied, with respect to Sony's product or its interoperation with the listed Cisco product and disclaims any implied warranties of merchantability or fitness for a particular use, or against infringement.
12. Viewable area measured diagonally.
13. Broadband Internet service required along with third-party services which may require a subscription fee or other service fee.
14. Does not support Memory Stick media and Memory Stick PRO™ media using the MagicGate® function or high-speed data transfer. Supports memory cards with capacities up to 1GB. Does not support 5.0V SmartMedia media or the ID function of SmartMedia media with IDs. Does not support the SD Memory Card media copyright protection function. This adapter has been tested with only Sony® branded Memory Stick PRO™ media. Sony® branded Memory Stick PRO™ media is recommended for use with this adapter.
15. Measured at its narrowest point.

Computer Interface: The computer industry lacks standards, and therefore, there are a multitude of varying software packages and add-on hardware options. This personal computer is not manufactured to operate any specific software, and Sony does not and cannot make any warranty or representation with respect to the performance of this product with any particular software packages and/or non-Sony add-on hardware options except those mentioned in this document. Sony hereby disclaims any representations or warranty that this product is compatible with any combination of products you may choose to connect. While Sony representatives or Sony authorized dealers may be able to assist you and may make recommendations, they are NOT authorized to vary or waive this disclaimer. Purchasers must determine for themselves the suitability and compatibility of the hardware and software in each and every particular instance. Software titles pre-installed on the Sony Notebook Computer are subject to change without notice. Simulated graphic shown on display. Pre-installed software may not be identical to retail versions or have all documentation. This product meets the standards of the International Energy Star Program for energy efficiency. Features and specifications are subject to change without notice. Non-metric weights and measurements are approximate. ©2006 Sony Electronics Inc. All rights reserved. Reproduction in whole or in part without written permission is prohibited. Sony, i.LINK, Memory Stick, VAIO, XBRITE-ECO, Memory Stick PRO, Memory Stick PRO Duo, MagicGate, Click to DVD and like, no other are trademarks of Sony. Intel and Centrino are registered trademarks and Core is a trademark of Intel Corporation. Microsoft and Windows are registered trademarks and Vista is a trademark of Microsoft Corporation. Cisco, Cisco Systems, the Cisco Systems logo, and the Cisco Square Bridge logo are registered trademarks or trademarks of Cisco Systems, Inc. and/or its affiliates in the U.S. and certain other countries. The Bluetooth word mark and logo are registered trademarks and are owned by Bluetooth SIG, Inc. All other trademarks are trademarks of their respective owners. Printed in U.S.A. 08/06.
Lamp in this product contains mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance (www.eiae.org).